

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09244

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07D209/12, A61K31/404, A61P25/00, 25/28, 43/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C07D209/12, A61K31/404, A61P25/00, 25/28, 43/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAPLUS, REGISTRY (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Metabolic Brain Disease, (2001), 16(3/4), pages 199 to 205	1, 3-6, 8
X	JP 2002-114763 A (MEIJI MILK PROD. CO., LTD.), 16 April, 2002 (16.04.02), (Family: none)	1-6, 8
A	WO 99/08987 A1 (MEIJI MILK PROD. CO., LTD.), 25 February, 1999 (25.02.99), & EP 1003706 A1 & US 6228893 B1 & JP 2001-515058 A	1-6, 8
X	Chemical Abstracts, Vol.64, abs.No.17523c-e	1, 3, 6, 8
X	Chemical Abstracts, Vol.53, abs.No.18972i-18973f	1

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier document but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
19 September, 2003 (19.09.03)

Date of mailing of the international search report  
07 October, 2003 (07.10.03)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4053624 A (BOEHRINGER MANNHEIM GmbH.), 11 October, 1977 (11.10.77), & DE 2426439 A & GB 1447474 A & CH 612423 A & FR 2272663 A & JP 51-4167 A & AT 7504122 A & AT 7701030 A & CH 615421 A	1, 8
X	JP 49-34986 B1 (KYOWA HAKKO KOGYO CO., LTD.), 19 September, 1974 (19.09.74), (Family: none)	1
X	US 3996241 A (BOEHRINGER MANNHEIM GmbH.), 07 December, 1976 (07.12.76), & DE 2358973 A & CA 1036610 A & SE 7414571 A & ZA 7407433 A & AU 7475575 A & FI 7403372 A & ES 432163 A & BE 822511 A & NL 7415249 A & GB 1438218 A & FR 2252095 A & JP 50-84566 A & AT 7409469 A & CH 607998 A	1
X	J.Med.Chem., (1998), 41(9), p.3624-34	1
X	J.Chem.Soc., Sec. C: Organic, (1971), (1), p.178-81	1
X	Tetrahedron Lett., (1969), (1), pages 19 to 22	1
X	US 2002/058648 A1 (HAMMERLY), 16 May, 2002 (16.05.02), (Family: none)	1, 3, 6, 8
X	WO 98/50357 A2 (THE TEXAS A & M UNIVERSITY SYSTEM), 12 November, 1998 (12.11.98), & US 5948808 A & AU 9891021 A & EP 971890 A2	1, 3, 6, 8
X	EP 747379 A1 (ADIR ET CHAMPAGNIE), 11 December, 1996 (11.12.96), & FR 2735129 A & JP 8-333362 A & CA 2178302 A & AU 9654735 A & CN 1143642 A & NO 9602360 A & US 5703070 A & ZA 9604842 A	1, 8
X	JP 6-166672 A (MITSUI TOATSU CHEMICALS), 14 June, 1994 (14.06.94), (Family: none)	1, 3, 6, 8

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4147786 A (CIBA-GEIGY A.-G.), 03 April, 1979 (03.04.79), & DE 2609289 A & SE 7602729 A & NO 7600774 A & GB 1534351 A & FI 7600584 A & FR 2303541 A & ES 445874 A & AU 7611750 A & IL 49171 A & BE 839347 A & DK 7601014 A & NL 7602508 A & JP 51-113878 A & US 4242347 A	1, 8
X	US 3974179 A (AMERICAN HOME PRODUCTS CORP.), 10 August, 1976 (10.08.76), & US 3843681 A & US 3939178 A & US 4012417 A & US 4036842 A & US 4223151 A	1, 8
X	Chem. Pharm. Bull., (2001), 49(5), p.563-71	1, 8
X	Phytochemistry, (1985), 24(3), pages 598 to 600	1
X	Chemical Abstracts, Vol.97, abs.No.215214	1
X	Chemical Abstracts, Vol.94, abs.No.173764	1
X	Chemical Abstracts, Vol.79, abs.No.41545	1
X	Chemical Abstracts, Vol.78, abs.No.43192	1

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## Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 7

because they relate to subject matter not required to be searched by this Authority, namely:

The invention as set forth in claim 7 pertains to method for treatment of the human body by therapy.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.